



Release Notes for naica Analysis Pro

Version 4.1

February 2026

For research use only. Not for use in diagnostic procedures.

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Overview

This document describes the new features and enhancements added to Version 4.1 of the naica Analysis Pro software, which is 21 CFR Part 11-compliant. Issues that have been fixed in this release are also included.

New Features and Enhancements

Summary Results Table Display in PDF Reports

Instead of displaying sequential results tables for individual chambers, the PDF report summarizes the results of all chambers in a single table, as shown in the following graphic:

Result Table

	Population	Dilution Stock	C (cp/μl)	Number of positive droplets	Number of negative droplets	Separability Score	C min (cp/μl)	C max (cp/μl)	Relative Uncertainty (%)
S-0674824-1-A1	Blue Channel	1	8044.4	22934	153	3	7809.2	8320	3.2
Sample 1	Green Channel	1	8433.9	22967	120	2.3	8170.6	8749.2	3.4
Validity: Valid	Red Channel	1	750.6	8630	14457	1.7	734.7	766.7	2.1
S-0674824-1-B1	Blue Channel	1	815.7	7673	11571	6.2	797.4	834.3	2.3
Sample 2	Green Channel	1	808.8	7623	11621	3.7	790.6	827.3	2.3
Validity: Valid	Red Channel	1	695	6768	12476	1.7	678.4	711.7	2.4
S-0674824-1-C1	Blue Channel	1	298.4	3406	16654	6.9	288.4	308.5	3.4
Sample 3	Green Channel	1	291.9	3338	16722	3.8	282	301.8	3.4
Validity: Valid	Red Channel	1	723.7	7286	12774	1.7	707	740.6	2.3
S-0674824-1-D1	Blue Channel	1	8.4	109	20746	6.8	6.8	10	18.8
Sample 4	Green Channel	1	9.6	124	20731	3.2	7.9	11.2	17.6
Validity: Valid	Red Channel	1	855.4	8622	12233	1.7	837.3	873.8	2.1
S-0674814-2-A2	Blue Channel	1	0.7	10	21894	5.7	0.3	1.2	62
Sample 5	Green Channel	1	27.2	368	21536	2.2	24.4	29.9	10.2
Validity: Valid	Red Channel	1	790.2	8522	13382	1.7	773.3	807.2	2.1
S-0674814-2-B2	Blue Channel	1	0.2	3	20577	15.5	-0	0.5	113.2
Sample 6	Green Channel	1	1.3	17	20563	2.2	0.7	2	47.5
Validity: Valid	Red Channel	1	733.9	7558	13022	1.7	717.3	750.7	2.3
S-0674814-2-C2	Blue Channel	1	15862.3	19770	1	nan	14122.2	inf	inf
Sample 7	Green Channel	1	14750.8	19769	2	4.3	13356.4	inf	inf
Validity: Valid	Red Channel	1	712.9	7096	12675	1.7	696.3	729.7	2.3
S-0674814-2-D2	Blue Channel	1	3201	17613	2769	8.1	3146.4	3257.5	1.7
Sample 8	Green Channel	1	3162.6	17546	2836	3.9	3108.8	3218.3	1.7
Validity: Valid	Red Channel	1	701.8	7224	13158	1.7	685.6	718.1	2.3

For details regarding all information included in the PDF report, refer to Section 5.3.3. in the naica system Pro software User Manual version (MKT-00150 Rev. C).

Summary QC Indicators Display in PDF Reports

In the PDF report, QC indicators are now exported in a single table for all chambers in the experiment, as shown in the following graphic:

Quality Indicators

ChamberID	Sample Name	Chamber Context	Image Sharpness		Nb Analyzable Droplets		Nb Saturated Objects		Global QC Chamber
			QC Flag	Score	QC Flag	Score	QC Flag	Score	
S-0674824-1-A1	Sample 1	n.a.	High	0.106094	High	23087	High	4	High
S-0674824-1-B1	Sample 2	n.a.	High	0.107518	High	19244	High	4	High
S-0674824-1-C1	Sample 3	n.a.	High	0.106920	High	20060	High	4	High
S-0674824-1-D1	Sample 4	n.a.	High	0.106513	High	20855	High	4	High
S-0674814-2-A2	Sample 5	n.a.	High	0.102723	High	21904	High	5	High
S-0674814-2-B2	Sample 6	n.a.	High	0.101853	High	20580	High	4	High
S-0674814-2-C2	Sample 7	n.a.	High	0.102124	High	19771	High	3	High
S-0674814-2-D2	Sample 8	n.a.	High	0.097852	High	20382	High	2	High

With the new format, users can more easily trace information relevant to experiment analysis.

For details regarding all information included in the PDF report, refer to Section 5.3.3. in the naica system Pro software User Manual version (Catalog No. 11003657).

Chip Layout Display in PDF Reports

In the PDF report, the chip layout is shown in a table format that includes the disposition of the following:

- Chips in the reader, designated by the chip ID
- Different samples on each chip

Users can refer to the table, which is displayed in the PDF report as shown in the following graphic, to easily trace information relevant to experiment setup.

Note: In this example, the third chip is empty.

Chip Layout		
Chip Holder 1		
S-0674824-1	S-0674814-2	
A1 Sample 1	A2 Sample 5	A3
B1 Sample 2	B2 Sample 6	B3
C1 Sample 3	C2 Sample 7	C3
D1 Sample 4	D2 Sample 8	D3

For details regarding all information included in the PDF report, refer to Section 5.3.3. in the naica system Pro software User Manual version (Catalog No. 11003657).

Optional Individual Chamber Reports

When generating the PDF report with naica Analysis Pro v4.1, the user can choose to include or not individual chamber reports (which includes the 2D plots associated with each chamber) in addition to the summary results table. The option can be selected by ticking the box “Include individual chamber report” below the “Generate Report” button as shown below:

The screenshot shows a software interface titled "Regulatory Reporting". It contains two main sections: "Audit Trail" with a "Display" button, and "PDF Report" with a "Generate Report" button. Below the "Generate Report" button, there are two checkboxes: "Include audit trail information" and "Include individual chamber report". The "Generate Report" button and the "Include individual chamber report" checkbox are highlighted with red boxes in the original image.

For instructions on generating a PDF report, refer to Section 5.3.3. in the naica system Pro software User Manual version (Catalog No. 11003657).

Additional Improvements to PDF Reports

- PDF reports now include the **Experiment name** section at the beginning of the document
- The following replacements were made:

This...	Is replaced by this...
Details	User and software traceability information
Signature	Signature, operator, date, and time
Operator and scan date	Scan operator, date, and time
Report generation time	Report generation operator, date, and time
Experiment context	Experiment and analysis setup information
Total number of chambers	Number of scanned chambers
Focus	Instrument focus
Zoning	Thresholding

- Tray holder ID, which always displayed N/A, was removed
- Experiment and analysis setup information was reordered as follows:
 - Instrument type
 - Instrument SN
 - Instrument focus
 - Chip type
 - Scanning template
 - Number of analyzed chambers
 - Number of analyzed samples
 - Spillover compensation matrix applied?
 - Threshold scope
 - Thresholding type
- Removed the Channels title (the table is now included under Experiment and analysis setup information)
- In the Channels table, replaced channels with scanned channels
- In the footer, Author is changed to Generated by
- All traceability information uses the name (datetime) format

For details regarding all information included in the PDF report, refer to Section 5.3.3. in the naica system Pro software User Manual version (Catalog No. 11003657).

naica® Analysis Pro experiment report

Experiment name
Demo experiment

User and software traceability information

Signature operator, date and time	demo.user (2024-01-29T15:14:25+01:00)
Signature meaning	review
Scan operator, date and time	demo.user (2024-02-02T13:25:54Z)
Report generation operator, date and time	demo.user (2024-01-29T15:14:44+01:00)
naica® Analysis Pro software version	4.1.34.3
naicaReaderPro software version	4.0.10.3

Experiment and analysis setup information

Instrument type	Prism3
Instrument SN	0123
Instrument focus	1.3 mm
Chip type	sapphire
Scanning template	ScanningTemplate_Prism3_SapphireChip_naica-multiplex-PC R-MIX_Tagman v2.1
Number of analyzed chambers	8
Number of analyzed samples	8
Spill-over compensation matrix applied?	no
Thresholding scope	Common for all chambers
Thresholding type	Lines

Scanned channel	Fluorophore	Target	Exposure (ms)
Blue	FAM	Target A	85
Green	HEX	Target B	250
Red	Cy5	Target C	50

Chip Layout

Chip Holder 1

S-0674824-1		S-0674814-2	
A1	Sample 1	A2	Sample 5
B1	Sample 2	B2	Sample 6
C1	Sample 3	C2	Sample 7
D1	Sample 4	D2	Sample 8
			D3

Improved Chamber ID Sorting

In naica Analysis Pro v4.1, for Edit experiment and in the Results tab, sorting by chamber ID sorts according to the chamber order on the chip (A1, B1, A2, B2, and so forth) instead of alphanumeric (A1, A2, and so forth).

Multiple Chamber Validation

You can change the validity status of multiple samples at once. For sample validation instructions, refer to Section 5.3 in the naica system Pro software User Manual version (Catalog No. 11003657).

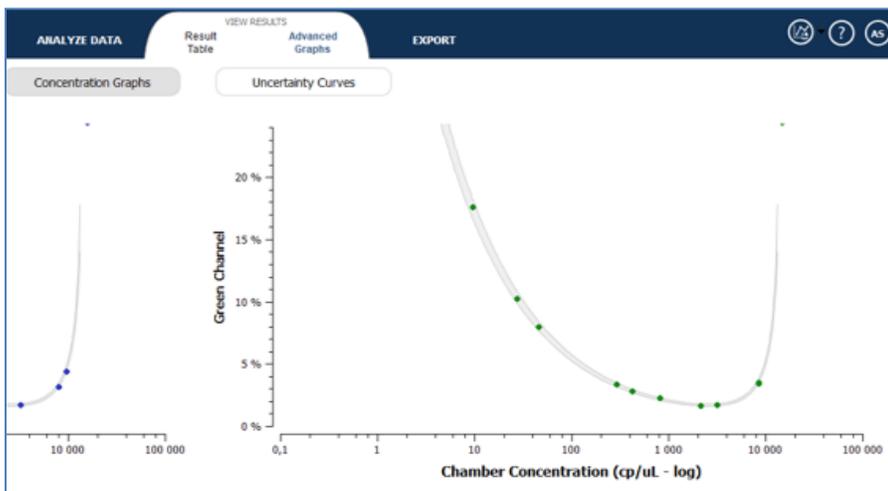
Changes to Exported CSV or XLSX File

The term Zoning was changed to Thresholding in the exported files to maintain consistency with the software interface.

Fixed Issues

The following issue has been fixed in this software version:

- **Uncertainty curves:** The software no longer crashes when users view the uncertainty curves in the Advanced Graphs tab, even when the chamber concentrations in the experiment are spread across the limits of the dynamic range.



- **Experiment signing:** The chamber order is maintained even when a user unsigns the experiment.
- **Scanning template registration:** Scanning templates that were generated using the I/O > Save as a template (.ncx) menu are now registered in naica Data Service.
- **Scanning template name:** The scanning template experiment name corresponds to the template file name instead of the name of the file used to generate the scanning template.
- **Reanalysis:** When using the re-analysis function in naica Analysis Pro, the regulatory information and audit trail are fully propagated to the output file.

For instructions on using the re-analysis function, refer to the latest [Crystal Miner Software User Manual](#).

- **Export data:** Users with the Export data user privilege can export data in .xlsx and .csv formats, even if the experiment is not signed.
- **Edit experiment:** Only users with the Create Template user privilege can edit the scanning parameters from Experiment Details in Edit experiment.

- **Miscellaneous fixes:**

- The Rosace (Venn diagram) only appears for 3-plex RGB experiments.
- The visualization artifact in the Result table is removed when pooling is removed.
- Fixed the population selection and display after removing a polygon.
- The software no longer crashes when you load a 3-plex experiment after a 6-plex experiment.
- When population names contain invalid Windows characters, the system substitutes '_' in population names and sample names to enable the export.
- The software no longer crashes when a population is removed.
- Added an icon for the software in Windows Add or remove programs.
- In the .ncr file, all plot bounds are saved for all plot pages instead of just the first plot page.
- The software no longer crashes when an experiment is loaded directly after another experiment that had a different channel range.
- Corrected a type in the *Please ensure that the input file is not corrupted* advisory message.
- The software no longer crashes when accessing View Result Advanced Graphs (bad narrow conversion).

For information on unresolved issues or system anomalies, and workarounds where available, contact Bio-Rad Technical Support.

Revision History

Release Date	SAP DIR and Version	Description
February 2026	10000255611 Ver A	Reformat/edit document using Bio-Rad branding

Product Ordering Information

Catalog No.	Product Reference No.	Product Description
11003657	S30021	Analysis software for the naica system

Contacting Technical Support

The Bio-Rad Technical Support department in the U.S. is open Monday through Friday, 5:00 AM to 5:00 PM, Pacific time.

Phone: 1-800-424-6723, option 2

E-mail: Support@bio-rad.com (U.S./Canada Only)

For technical assistance outside the U.S. and Canada, contact your local technical support office or click the Contact us link at www.bio-rad.com.

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